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No. 1

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I. METALLURGICAL INDUSTRY

Item: Ch'ang-pai Mine
[7022 4101 4349]

Location: Kang-shan Area of Ch'ang-pai Mountains, Kirin Province, PRC

Data: A new kind of mineral--oxide of niobium and aluminum--has been found here in its natural state. The T'ung-hua Geological Team of the Kirin Province Geological Bureau discovered this mineral while prospecting in the Kang-shan Area of the Ch'ang-pai Mountains in 1971. Because of its special physical properties, the mineral was delivered to the Kirin Geological Research Institute to be analyzed. Owing to interference and sabotage by the "gang of four," the analytical work had never been successfully carried out. However, after the gang's downfall, analysis and testing of this "Ch'ang-pai mineral" were completed in less than 1 year.

Source: Hong Kong CHUNG-KUO HSIN-WEN 18 May 78 p 3

Item: Shou-tu [Capital] Steel Mill
[7445 6757 6921 0617]

Location: Peking PRC

Data: A 30-ton top-blown oxygen converter at this mill--a key enterprise--has set a new national record for the life of furnace lining in its class--2,868 heats. Operating continuously for 61 days, the No 2 Converter poured over 99,000 metric tons of steel by 14 May, an average of 47 heats a day. Over 99 percent of the ingots were up to standard, and consumption of refractory materials per metric ton of steel was low. The No 2 Converter set a national record of 1,616 heats last year. This year, workers and technicians have been improving the refining process to increasing lining life. After the first 1,000 heats they made full use of spray patching to keep the converter in good condition and production up.

Source: Peking NCNA in English 0726 GMT 16 May 78 OW

Item: Hsi-an Coking Plant
[6007 1344 3542 3516 0617]

Location: Sian, Shensi, PRC

Data: The first stage of the building of this plant has been basically completed and was put into operation on 15 June. (Ts'ao Shu-jen), secretary of the Sian Municipal CCP Committee and vice chairman of the Municipal Revolutionary Committee inspected the plant on 14 June. With the first stage of the building project in operation, it can produce 100,000 metric tons of coke each year. After the second stage of the building project has been put into operation, it can produce 200,000 metric tons of coke every year and a large amount of coal gas and other chemical and industrial raw materials. In the past, the municipality's coke used in industrial production came mainly from other areas. The production of many enterprises had been affected as a result of insufficient coke supplies. When this plant is completed, it will be able to produce enough coke for the municipality's industrial production. The plant will play an important role in promoting Sian's iron and steel industry, chemical industry and other industries and in improving the livelihood of the people.

Source: Sian Shensi Provincial Service in Mandarin 2330 GMT 16 Jun 78 HK

Item: T'ung-hua Iron and Steel Mill
[6639 0553 6921 6993 0617]

Location: T'ung-hua, Kirin Province, PRC

Data: This mill, from January to April this, fulfilled 35.76 percent of the total industrial output value plan for 1978 and fulfilled more than 33.9 percent of the annual plans for major products, such as steel, cast iron, steel products, cokes and iron ores, topping the peak of corresponding periods of previous years with improved quality and reduced raw material consumption and cost of production. As of May, the plant has fulfilled half of the annual plans for some products.

Source: Changchun Kirin Provincial Service in Mandarin 1100 GMT 23 May 78 SK

Item: T'ien-chin Metallurgical Bureau
[1131 3160 1579 0396 6855 1444]

Location: Tientsin, PRC

Data: This bureau has prefulfilled its state-assigned semiannual production plans for steel and steel products by 28 and 29 days, respectively, showing increases of 94 and 66 percent in the output of steel and steel products as compared to the same period of 1977. Substantial increases have been registered in the output of metal castings, nonferrous metals, fireproof materials and ferro-alloy over the corresponding period of 1977. The average daily, 10-day and monthly output of steel and steel products have shown remarkable increases.

Source: Tientsin City Service in Mandarin 2330 GMT 21 Jun 78 SK

Item Pen-ch'i Iron and Steel Company
[2609 3305 6921 6993 0361 0674]

Location: Pen-ch'i, Liaoning, PRC

Data: The "One Dragon" Subteam of the Nan-fen Open-cut Iron Mine under this company, after breaking national production records in the first quarter and April of this year, overfulfilled its semiannual production plan 1 month and 6 days ahead of schedule. In May, it set a new national record in daily output.

Source: Shenyang Liaoning Provincial Service in Mandarin 1100 GMT 6 Jun 78 SK

II. TRANSPORTATION EQUIPMENT INDUSTRY

Item: Liu-sha Fishing Port
[3177 3097 3342 3263]

Location: Western shore of the Leichow Peninsula, Kwangtung, PRC

Data: One of Kwangtung's largest fishing ports, this port, construction of which started in the winter of 1973, went into operation in October 1975. It can accommodate as many as 400 [pairs of] fishing vessels at one time. Oil and water pipes have been installed on the wharves to facilitate delivery of oil and water to the fishing vessels. It now takes only 1 day to refuel and resupply a fishing vessel with water, as compared to 5 days in the past.

The port's ice plant, which operates a quick-freezing and cold storage workshop, has the capacity to freeze 7,000 metric tons of seafood.

Source: Hong Kong CHUNG-KUO HSIN-WEN 3 Jun 78 p 4

Item: Ch'ang-tao Fishing Port
[7022 1497 3342 3263]

Location: Ch'ang-tao County, Shantung, PRC

Data: Located on South Ch'ang-shan Island in Po-hai Strait, this I-shaped port, which started operations in January 1978, can dock fourteen 100-ton-class fishing vessels simultaneously. One ordinary berth can dock eight 500-ton-class fishing vessels, while one deep-water berth can dock two 1,000-ton-class fishing vessels simultaneously.

Source: Hong Kong CHUNG-KUO HSIN-WEN 5 Jun 78 p 13

Item: Sung-k'ou Shipyard
[2646 0656 6644 5307 0617]

Location: Sung-k'ou, Mei Hsien, Kwangtung, PRC

Data: This newly built shipyard can build all types of oil tankers, passenger steamers, ferroconcrete boats and iron barges, all which are designed to operate along the Han River [7281 3068]. Two 300-passenger ships built in 1977 by this shipyard are now operating on the Han River.

Source: Hong Kong CHUNG-KUO HSIN-WEN 31 May 78 p 7

Item: Sung-k'ou Port
[2646 0656 3263]

Location: Sung-k'ou, Mei Hsien, Kwangtung, PRC

Data: The largest mid-transshipment port in the Mei Hsien area, this port has built nine semi-mechanized loading wharves and can dock 650 vessels. The volume of goods handled by this port [per year] is 1 million metric tons, over 50 percent of the volume of cargo handled in the Mei Hsien area.

Source: Hong Kong CHUNG-KUO HSIN-WEN 31 May 78 p 7

Item: Shang-hai Harbor Bureau
[0006 3189 3263 0523 1444]

Location: Shanghai, PRC

Data: Since late April, this bureau has effectively improved its work and prevented accidents. The volume of freight handled in May exceeded the plan by 18.1 percent, while the rate of damaged freight decreased by 79 percent over that of the same period last year. A work team led by Communications Minister Yeh Fei recently arrived at the Shanghai Harbor to help the workers and staff members build the harbor into a Ta-ch'ing-type enterprise by the end of the year.

Source: Shanghai City Service in Mandarin 0000 GMT 20 Jun 78 OW

Item: Che-chiang Provincial Communications Bureau
[3181 3068 4164 0074 6639 1444]

Location: Chekiang Province, PRC

Data: This bureau recently successfully trial-produced a 120-hp ferrocement tug boat at the shipyard of the An-chi Navigation Company. The quality of the boat is up to the province's advanced level.

Source: Hangchow Chekiang Provincial Service in Mandarin 1100 GMT 23 May 78
OW

Item: Ch'ang-ch'un Railway Subbureau
[7022 2502 6993 6424 0433 1444]

Location: Ch'ang-ch'un, Kirin Province, PRC

Data: The Ch'ang-ch'un Passenger and Freight Trains Section of this sub-bureau, from January to April this year, has fulfilled various plans for checking and repairing passenger and freight trains ahead of schedule, with a ratio of perfect operation reaching over 96 percent. The section checks and repairs more than 10,000 passenger and freight trains every month. The quality of passenger train repair has been raised to 92.3 percent, reaching the standard set by the Ministry of Railways.

Source: Changchun Kirin Provincial Service in Mandarin 1100 GMT 20 May 78 SK

Item: Pai-ch'eng Railway Subbureau
[4101 1004 6993 6424 0118 1444]

Location: Pai-ch'eng, Kirin Province, PRC

Data: The Ta-an-pei Engineering Section of this sub-bureau has prefilled by 70 days its transportation plan for the first half of 1978, breaking all past records in eight major economic indexes. It saved 2,626 metric tons of coal used by trains in the first 5 months of this year and carried 189,908 extra tons of goods from March to May.

Source: Changchun Kirin Provincial Service in Mandarin 1100 GMT 17 Jun 78 SK

Item: Chi-nan Railway Station
[3444 0589 6993 6424 4541]

Location: Tsinan, Shantung, PRC

Data: This station has overfulfilled its first-half year passenger and freight transportation plans ahead of schedule by 29 and 34 days, respectively. It has maintained a good safety record in production by operating passenger and freight trains without mishap for 100 days.

Source: Tsinan Shantung Provincial Service in Mandarin 1130 GMT 12 Jun 78 SK

Item: Civil Aviation Administration of China
[0022 0948 3046 5300 1444]

Location: Peking, PRC

Data: The Kirin provincial bureau of this administration has organized 11 agricultural aircraft this year in order to carry out special flight tasks for supporting agriculture in 4 prefectures, 10 counties and 17 work sites of the province. At present, such work as aerial protection for forests, artificial rainmaking and aerial surveying have been implemented.

Source: Changchun Kirin Provincial Service in Mandarin 2200 GMT 2 Jun 78 SK

III. ELECTRONIC AND PRECISION EQUIPMENT INDUSTRIES

Item: Hung-feng Instruments and Stationery Plant
[4767 1496 0308 0892 2429 0367 0617]

Location: Shanghai, PRC

Data: Workers and technicians here recently designed and built a 500-mm panoramic camera which can revolve 360 degrees and uses 250-mm wide films. With a maximum photographic length of 3.5 meters, the camera can photograph a large group of several thousand people.

Source: Shanghai K'O-HSUEH HUA-PAO [Science Pictorial] No 4, Apr 78 p 28

Item: Chen-chiang Radio Plant
[6966 3068 3541 4848 7193 0617]

Location: Chen-chiang, Kiangsu, PRC

Data: With the help of the Chinese College of Sciences and Technology, this plant successfully test-manufactured a compact, high-precision, and easy-to-operate integrated circuit digital voltage meter.

Source: Hong Kong CHUNG-KUO HSIN-WEN 19 May 78 p 3

Item: Shang-hai Glass Plant
[0006 3189 3788 3863 0617]

Location: Shanghai, PRC

Data: This plant has successfully trial-manufactured [transparent] ultraviolet color filter glass which has wide applications in the fields of scientific research, medicine, pharmaceuticals, biochemical reagents, petroleum, metal fault finding, and ore exploration. Trial applications conducted by units concerned indicate that this kind of glass produces excellent results. Its penetration at 254 millimicron wavelength is greater than 70 percent; the visible light penetration rate approximates 0 percent; and the penetration rate at 420-millimicron wavelength approaches 0 percent. The successful manufacture of this product has provided an important part for the application and development of ultraviolet analysis in China.

Source: Shanghai K'O-HSUEH HUA-PAO [Science Pictorial] No 4, Apr 78 p 29

Item: Hung-ch'i Wrist Watch Plant
[4767 2475 2087 9473 0617]

Location: Sian, Shensi, PRC

Data: A worker-technician in the northwest China city of Sian has developed a multi-position machine tool that makes the hole for the stem winder on a watch case in 8 seconds, and which is twice as efficient as the conventional, hand-operated machine. Pneumatically controlled this new model is easy to operate and improves the quality of the product. It has been approved by the state for serial production. Its designer, Ch'en Yung-ho, is now 40. Formerly a mechanic in a Shanghai wrist watch factory, he was transferred in 1970, together with a number of other experienced workers and technicians, to this plant, where the factory buildings were completed the same year. China began to make watches in 1958. In addition to the major industrial cities, Shanghai, Peking and Tientsin, the provinces of Heilungkiang, Liaoning, Hopei, Kiangsu, Kwangtung and Shensi also produce watches. [Excerpt]

Source: Peking NCNA in English 0714 GMT 8 Jun 78 OW

Item: Chinese Weights and Measures Institute
[0022 0948 1653 6852 5899 4282 4496 2076]

Location: Probably Peking, PRC

Data: China has successfully produced two high precision measuring devices for calibrating standard accelerators. The medium-frequency oscillation standard [0022 7340 2182 0520 1015 0402] was jointly produced by this institute, Chekiang University and the Su-chou Experimental Equipment Plant, while the high-frequency oscillation standard was produced by Chekiang University, this institute and the Shanghai Municipal Standard Weights and Measures Administration. The precision of the two devices in measuring oscillation is up to international standards and will help meet urgent needs in industrial and agricultural production, as well as in national defense construction.

Source: Peking NCNA Domestic Service in Chinese 0106 GMT 15 May 78 OW

Item: Chin-chou Electronic Tube Plant
[6930 1558 7193 1311 4619 0617]

Location: Chin-chou, Liaoning, PRC

Data: This plant, which had been affected by the "gang of four," has made outstanding changes in production and comprehensively over-fulfilled eight state-assigned economic and technical indexes in the first quarter by surmounting difficulties, including a shortage of electricity.

Source: Shenyang Liaoning Provincial Service in Mandarin 1100 GMT 7 May 78
SK

IV. CHEMICAL INDUSTRY

Item: Hsin-kuang Chemical Plant
[2450 0342 0553 1562 0617]

Location: Shanghai, PRC

Data: With the help of the Shanghai College of Science and Technology, this plant succeeded in producing "T'ieh-mao" [6993 6931; Iron Anchor] 300# and 350# anaerobic adhesives suitable for use on lock and seal bolts. When used on vibrating machinery, these new adhesive products cannot only reduce the weight of machinery, but also insure that the bolts will not become loose under strong vibrations. They can also be used on aircraft, automotive, and tractor engines and other machinery that must be sealed and guarded against vibrations.

Source: Shanghai K'O-HSUEH HUA-PAO [Science Pictorial] No 4, Apr 78 p 29

Item: Hu-pei Chemical Fertilizer Plant
[3275 0554 0553 5142 0617]

Location: Chih-chiang County, Hupeh, PRC

Data: With the exception of a few service facilities, such as food grain and coal storage buildings and a produce market, this construction project has been completed and commissioned. This plant was originally designed to employ 2,200 employees and workers and 2,310 "commercial service" personnel. Most of the construction work was finished by the end of 1975. [No production figures given]

Source: Peking CHIEN-CHU HSUEH-PAO [Architectural Journal] No 2 Jun 78 p 20

Item: Ta-p'u Hsien Nitrogenous Fertilizer Plant
[1129 1033 4905 8644 5142 0617]

Location: On the bank of the Han River in Ta-p'u County, Kwangtung, PRC

Data: This recently built plant has an annual synthetic ammonia output capacity of 3,000 metric tons. Since it started operation, the plant has been averaging 10.5 metric tons of synthetic ammonia per day, with the highest daily output reaching 16 metric tons.

Source: Hong Kong CHUNG-KUO HSIN-WEN 19 May 78 p 6

Item: Ts'ang-chou Chemical Fertilizer Plant
[3318 1558 0553 5142 0617]

Location: Ts'ang-chou, Hopeh, PRC

Data: This plant recently held a meeting to celebrate its success in promoting production. During a period of 100 days ending 31 (April), the plant produced 89,412 metric tons of synthetic ammonium or 28 percent more than the first 100 days of last year after the plant began production. The meeting was addressed by T'ao T'ao, vice minister of the Ministry of Chemical Industry who, in her speech, praised the plant party committee and workers and their families for their success and urged them to continue their efforts to make still greater contributions. The plant received messages of congratulations from the Hopeh Provincial Revolutionary Committee, Ministry of Chemical Industry, Hopeh Provincial Bureau of Petroleum and Chemical Industries, Ta-ch'ing Chemical Fertilizer Plant and a number of other chemical plants.

Source: Shihchiachuang Hopei Provincial Service in Mandarin 1100 GMT
14 May 78 OW

Item: Liao-yuan Chemical Plant
[3598 0625 1562 0617]

Location: Shanghai, PRC

Data: This plant and the Nan'ning Aluminum Plant in Kwangsi have taken positive measures to combat pollution and protect the environment. This plant has turned large amounts of industrial waste into useful substance, and the Nan-ning plant has made use of such harmful gas as sulfur dioxide to produce 90 metric tons of manganic compounds for electrolytic purposes each year.

Source: Peking Domestic Service in Mandarin 2230 GMT 19 May 78 OW

Item: Hsin-tu Hsien Nitrogenous Fertilizer Plant
[2450 6757 4905 8644 5142 0617]

Location: Hsin-tu County, Szechwan, PRC

Data: This plant has raised its annual output from 3,000 to 12,833 metric tons after embarking on mass activities to bring about technical innovation and to tap potentials.

Source: Peking NCNA Domestic Service in Chinese 0200 GMT 15 Jun 78 OW

Item: Sheng-li Petrochemical Main Plant
[0524 0448 4248 3111 0553 1562 4920 0617]

Location: Shantung Province, PRC

Data: This plant has recently built a large unit to produce oxygenated pitch by oxygenating the residue, a by-product in the process of oil refinery. Oxygenated pitch is mainly used for road construction. The largest in China, the unit will produce 300,000 metric tons of pitch a year. All production processes are mechanized. Building began in 1977 and the unit went into production in April this year. [Text]

Source: Peking NCNA in English 0711 GMT 16 Jun 78 OW

Item: Sheng-li Petrochemical Main Plant
[0524 0448 4248 3111 0553 1562 4920 0617]

Location: Shantung Province, PRC

Data: The oil refinery of this plant recently installed a piece of blown asphalt-producing equipment. The largest one in this country at the present time, the equipment has a capacity of producing 0.3 million metric tons of blown asphalt a year in a continuous operation from beginning to end of the entire production process. It can cool the finished product automatically and is characterized by large size and high degree of mechanization.

Source: Tsinan Shantung Provincial Service in Mandarin 1130 GMT 14 Jun 78
SK

Item: Chi-lin Chemical Industry Company
[0679 2651 0553 1331 1562 2814 0361 0674]

Location: Kirin Province, PRC

Data: [1] The machinery plant of this company has prefulfilled its first-half year plans for output volume and output value by 1 month, fulfilling 54 percent of the annual output volume plan and 53.6 percent of the annual output value plan. In May, it produced 818 metric tons of products, the highest monthly output since the establishment of the plant.

[2] This company has successfully prefulfilled its state-assigned semiannual production plan by 18 days. Statistics compiled by 15 June show that the company has fulfilled the 1978 total industrial output value plan by 51.1 percent, marking a 15.4 percent increase over the first-half of 1977, reached 100 percent of the state-fixed output quality index, fulfilling the 1978 labor productivity plan by 53.3 percent, fulfilled the 1978 plan for profits remitted to the State by 50.5 percent and continuously reduced the standard of consumption of raw materials.

Source: Changchun Kirin Provincial Service in Mandarin [1] 0420 GMT 12 Jun
[2] 2200 GMT 18 Jun 78 SK

Item: Jen-min Agricultural Chemicals Plant
[0086 3046 6593 5522 0617]

Location: Tientsin, PRC

Data: This plant, in the first quarter of this year, has prefulfilled its state-assigned agricultural chemicals production plans, expanded the variety of its products from 4 to 6 and increased its total output by 800 metric tons. The plant produces high efficiency and low toxic bactericide, weed killers and pesticide, and supplies potassium chloride weed killer to communes and brigades, farms and timber yard in more than 20 provinces, municipalities and autonomous regions throughout the country.

Source: Tientsin City Service in Mandarin 1330 GMT 30 Apr 78 SK

V. FUEL AND POWER INDUSTRIES

Item: Mao-ming Petroleum Company
[5399 0682 4348 3111 0361 0674]

Location: Mao-ming, Kwangtung, PRC

Data: In 1977 alone, personnel here successfully carried out 451 research projects, 37 of which were important ones. In cooperation with the workers, scientific and technical personnel of this company built a shale oil "boiling" combustion boiler and conducted successful trial operations in early 1977. This project has opened the way for the utilization of low heat value solid fuel in China.

Source: Hong Kong CHUNG-KUO HSIN-WEN 26 May 78 p 4

Item: Mao-ming Petroleum Industry Company
[5399 0682 4348 3111 1562 2814 0361 0674]

Location: Mao-ming, Kwangtung, PRC

Data: The lubricants plant of this company has been completed and put into production. This key state construction project includes 12 installations. Work began on the project in August 1973. The plant can produce lubricants for engines, machinery, electricity generators and so on, and its construction is of major significance for meeting the needs of production and changing the situation of having to transport lubricants from north to south China. The plant occupies 120,000 square meters and contains 160,000 meters of piping and over 1,000 pieces of equipment, together with 80 oil tanks with a capacity of over 1,000 cubic meters.

Source: Canton Kwangtung Provincial Service in Mandarin 0430 GMT
18 Jun 78 HK

Item: Chun-liang-ch'eng Power Plant
[6511 4752 1004 4099 7193 0617]

Location: Tientsin, PRC

Data: Workers here have evolved a technique for inspecting and repairing steam and water valves while they are still under pressure. Employing this "new" method, the plant successfully carried out in the past several years 68 inspections and repairs of steam and water valves without stopping the machinery or equipment, thus permitting the generation of an additional 29.93 million kilowatt hours of electricity for the state.

Source: Hong Kong CHUNG-KUO HSIN-WEN 5 Jun 78 p 14

Item: Fen-i Power Plant
[0433 1355 7193 0617]

Location: Fen-i, Kiangsi, PRC

Data: This plant's No 5 Generating Unit, a 50,000-kw high-temperature and high-voltage generator joined the local power grid before the 1 May Holiday this year. Arrangements for this construction project began in 1975 to meet Kiangsi's growing demand for electric power. Personnel of the Kiangsi Thermal Power Construction Company, the I-ch'un Building Construction Company and this plant participated in the project.

Source: Peking PEOPLE'S DAILY 25 May 78 p 3

Item: Sheng-li Oilfield
[0524 0448 3111 3944]

Location: Shantung Province, PRC

Data: In 1977, this oilfield retrieved 86.5 million metric tons of scrap iron and steel and 4,600 metric tons of discarded pipes and fittings. More than 640,000 pieces of discarded tools and materials were also collected for reuse. This year, the oilfield overfulfilled the first quarterly plan for recycling wastes and discarded materials.

Source: Peking NCNA Domestic Service in Chinese 0200 GMT 18 May 78 OW

Item: Sheng-li Oilfield
[0524 0448 3111 3944]

Location: Shantung, PRC

Data: The No 3252 Drilling Team at this oilfield has recently had successes in comprehensive experiments with high-speed well drilling. The highest daily drilling footage was 1,983.7 meters under an atmospheric pressure of 200,171.48 meters more than the previous national record. The speed for drilling a 3,200 meter-deep well doubled that of the advanced national level. Thus the drilling team achieved high speed, good quality, safety and low consumption at the same time. The success of the experiment with high-speed drilling through ejection under high-pressure is a new step forward in modernizing well-drilling techniques and is of great significance to the rapid development of China's petroleum industry. [Text]

Source: Peking NCNA in English 0727 GMT 12 Jun 78 OW

Item: Pei-p'iao Mining Adminsitration Bureau
[0554 4348 4349 0523 1444]

Location: Pei-p'iao, Liaoning Province, PRC

Data: This bureau has overfulfilled state-assigned May production plans ahead of schedule, demonstrating substantial increases in raw coal output and tunneling footage over those of the first 4 months this year.

Source: Shenyang Liaoning Provincial Service in Mandarin 1100 GMT 3 Jun 78
SK

Item: Pen-ch'i Mining Administration Bureau
[2609 3305 4349 0523 1444]

Location: Pen-ch'i, Liaoning, PRC

Data: This bureau has overfulfilled state-assigned May production plans for raw coal, excavation, tunneling and coal dressing ahead of schedule by 2 to 8 days, respectively. It produced a total of 96,000 metric tons of raw coal beyond the plan from January to May and switched deficits, which had accumulated for years, to profits.

Source: Shenyang Liaoning Provincial Service in Mandarin 1100 GMT 3 Jun 78
SK

Item: Fu-shun Mining Administration Bureau
[3239 7311 4349 0523 1444]

Location: Fu-shun, Liaoning, PRC

Data: This bureau prefulfilled its May production plans, producing an extra 30,000 metric tons of raw coal and 60,000 metric tons of dressed coal. In May, it also successfully fulfilled its quotas for stripping, tunneling and excavation.

Source: Shenyang Liaoning Provincial Service in Mandarin 1100 GMT 6 Jun 78 SK

Item: Lung-feng Coal Mine
[7893 7685 3561 4349]

Location: Fu-shun, Liaoning, PRC

Data: The coal dressing plant of this mine recovered more than 27,700 metric tons of dressed coal for smelting steel from March to mid-May, marking a 5.2-percent increase in the recovery rate as compared to that of January and February.

Source: Shenyang Liaoning Provincial Service in Mandarin 1100 GMT 5 Jun 78 SK

Item: Feng-man Power Plant
[6265 3341 4099 7193 0617]

Location: Kirin Province, PRC

Data: At the end of May 1978 this plant overfulfilled the power generation task for the first 5 months of 1978 by 5.8 percent, raised the labor productivity by 17.9 percent, reduced the power consumption by 150,000 kilowatt-hours, and fulfilled various economic indexes in an all round way.

Source: Changchun Kirin Provincial Service in Mandarin 2200 GMT 7 Jun 78 SK

VI. MACHINE-BUILDING INDUSTRY

Item: Chen-chiang Transformer Plant
[6966 3068 6239 1090 0892 0617]

Location: Chen-chiang, Kiangsu, PRC

Data: This plant's new products include a piece of fast reactive-load compensation equipment for power transmission and supply.

Source: Hong Kong CHUNG-KUO HSIN-WEN 19 May 78 p 3

Item: Chen-chiang Forest Machinery Plant
[6966 3068 2651 2623 0617]

Location: Chen-chiang, Kiangsu, PRC

Data: This plant has manufactured a 3-ton side forklift truck to fill a gap in China's forest machinery industry. The machine can operate in hilly, as well as flat, areas and under high and low temperature.

Source: Hong Kong CHUNG-KUO HSIN-WEN 19 May 78 p 3

Item: Ch'ang-ch'un Electric Power Equipment Repair and Manufacturing
Plant
[7022 2504 7193 0500 6080 0271 0208 6644 0617]

Location: Ch'ang-ch'un, Kirin Province, PRC

Data: During the first 5 months of 1978, the quality of principal products was substantially improved and the rate of product rejects declined in this plant.

Source: Changchun Kirin Provincial Service in Mandarin 2200 GMT 11 Jun 78
SK

VIII. AGRICULTURAL MACHINERY INDUSTRY

Item: Ch'ang-wei Prefecture Agricultural Machinery Research Institute
[2490 3452 0966 0575 6593 2623 4282 4496 2076]

Location: Ch'ang-wei, Shantung, PRC

Data: In cooperation with the Kao-mi Hsien Agricultural Machinery Research Institute and the Kao-mi Tractor Repair and Parts Plant, this institute successfully built a Ta'i-shan [1132 1472]-12G high-clearance tractor and its attachments. Designed principally for use in crop field management, i.e., medium plowing, banking, fertilizer application, and plant protection, this tractor has a clearance of 800 millimeters, thus permitting it to operate in the fields where maize, cotton and kaoliang plants are under 1.2 meters in height without damaging the crops. Farm implements attached to the T'ai-shan-12G tractor include powder sprayer, boom-type sprayer, mounted two bottom plow, grain drill, wheat-rice harvester, cultivating, banking and additional fertilizer application machine, and 1-ton trailer.

Source: Peking NUNG-TS'UN K'O-HSUEH SHIH-YEN [Rural Scientific Experiment]
May 78 p 22

Item: Hei-lung-chiang Forest Machinery Research Institute
[7815 3068 4164 2651 2814 2623 2750 4282 4496 2076]

Location: Heilungkiang Province, PRC

Data: This institute's ZC-1.25 Seedbed Building Machine has been officially put into production. Mounted in back of a tractor, this piece of machinery can construct a pathway, plow soil and build a seedling bed in one continuous operation. Operated by a tractor driver, the machine can complete making seedbeds on 6.5 mou of land per hour. The main technical characteristics of the seedbed machine are as follows:

Plow width	1.25 meters
Bottom width of pathway	22 centimeters
Plow depth	12-20 centimeters
Height of seedbed	10-20 centimeters
Width of bed top	1.1 meters

Source: Peking NUNG-TS'UN K'O-HSUEH SHIH-YEN [rural Scientific Experiment]
May 78 p 23

Item: Ch'ang-wei Tractor Plant
[2490 3452 2151 2139 2623 0617]

Location: Ch'ang-wei, Shantung, PRC

Data: With the help of 42 enterprises in 12 counties and municipalities, this plant was converted from a small repair factory in just 7 months during 1975 and it turned out 300 tractors the same year. After several expansion projects during the subsequent years, the plant now can mass produce 50-hp tractors. In the past 3 years, it turned out on the average two tractors for every commune in the Ch'ang-wei area.

Source: Hong Kong CHING-CHI TAO-PAO 7 Jun 78 p 13

Item: Kuei Hsien Agricultural Machinery Research Institute
[6311 4905 6593 2623 4282 4496 2076]

Location: Kuei County, Kwangsi, PRC

Data: Ma Chi-chao [7456 0679 0340] and other technicians of this institute successfully built and put into production a structurally simple and light-weight sugarcane planting combine which can complete six processes, such as digging trenches, disinfecting, applying fertilizer, and covering seeds with soil, in one operation. Each machine is capable of planting 4 mou of sugarcane an hour, a 15-fold increase in efficiency over manual labor.

Source: Hong Kong CHUNG-KUO HSIN-WEN 10 May 78 p 5

Item: Ch'ang-ch'un Tractor Plant
[7022 2504 2151 2139 2623 0617]

Location: Ch'ang-ch'un, Kirin Province, PRC

Data: This plant has overfulfilled state-assigned plans for each month from January to April, surpassing the highest levels in history for each month's output. By 30 May, the plant had fulfilled 46.5 percent of the annual plan for the "Tung-fang-hong No 28" tractor with improved quality and reduced raw material consumption and cost of production.

Source: Changchun Kirin Provincial Service in Mandarin 0420 GMT 2 Jun 78 SK

Item: Ch'ang-ch'un Tractor Plant
[7022 2504 2151 2139 2894 0617]

Location: Ch'ang-ch'un, Kirin Province, PRC

Data: This plant has overfulfilled its tractor production plans every month for the first 5 months, topping the peak of corresponding periods of previous years. By 11 June, the plant had overfulfilled its state-assigned tractor production plan for the first half of 1978 and reported a threefold increase in output volume over the same period of 1977. The cost of producing one tractor has been reduced by 40.4 percent in the first 5 months, as compared to that of the corresponding period last year.

Source: Changchun Kirin Provincial Service in Mandarin 2200 GMT 18 Jun 78 SK

VIII. MISCELLANEOUS INDUSTRIES

Item: Wu-lan-hao-t'e Meat Processing Complex
[3527 5695 3185 3676 5131 7352 5114 0678 0502 1562 0617]

Location: Wu-lan-hao-t'e, Kirin Province, PRC

Data: This well-equipped plant is capable of processing 1,000 sheep and 500 cattle per day. The beef processed by this plant is exported to foreign countries. Some of the rabbit meat supplied to Hong Kong and Macao last year was processed here. This plant's products also include sausage casings, soap and pharmaceuticals.

Source: Hong Kong CHUNG-KUO HSIN-WEN 6 Jun 78 p 9

Item: T'ien-chin Plastic Plant No 12
[1131 3160 1043 2436 0677 0069 0617]

Location: Tientsin, PRC

Data: Recently this plant successfully test-manufactured an electronic computer multipoint temperature group control mechanism to enable the plastics industry to take a new step toward automating its production. Before trial producing the above-mentioned electronic computer mechanism, the plant installed a continuous and semi-automated sealing line in the polyvinyl chloride hard tube workshop.

Source: Hong Kong CHUNG-KUO HSIN-WEN 22 May 78 p 8

Item: T'ien chin Paint Plant
[1131 3160 3111 3344 0617]

Location: Tientsin, PRC

Data: With the help of the Ministry of Railways, the Institute of Science and Technology, and other units, this plant, the largest of its kind in Tientsin City, produced a new kind of surface paint [not described] for large steel bridge girders. The paint was used for the first time on the Yangtze River Bridge, and after 8 to 9 years, conditions of the paint remain excellent.

Source: Hong Kong CHUNG-KUO HSIN-WEN 31 May 78 p 6

Item: T'ien-chin Tire Plant
[1131 3160 6544 5158 0617]

Location: Tientsin, PRC

Data: This plant is primarily engaged in the production of farm tractor tires. It turns out annually over 30 percent of the nation's tractors of the same type. The plant is currently producing 20 different kinds of tires, including some of those China had to import in the past. Its latest products include tires for heavy-duty logging tractors and self-propelled harvester combines. The quality of its tires has improved markedly in recent months.

Source: Hong Kong CHUNG-KUO HSIN-WEN 8 Jun 78 p 7

Item: Hsin-chiang Nonmetals Company
[2450 3984 7236 6855 1466 0361 0674]

Location: Sinkiang, PRC

Data: Using waste from processing mica, this company's Mica Plant No 1 has produced a kind of mica paper for use on electric machinery as insulation material. Sinkiang annually ships a quantity of its mica waste to other parts of the country while discarding most of the waste materials. The successful manufacture of the insulation paper from mica waste will definitely raise the utilization rate of local mica resources, which was about 20 percent.

Source: Hong Kong CHUNG-KUO HSIN-WEN 8 Jun 78 p 6

Item: Kuang-chou Storage Battery Plant
[1684 1558 7193 3069 0617]

Location: Canton, Kwangtung, PRC

Data: This plant has successfully produced an alkaline zinc-manganese battery capable of discharging electricity for 3,000 minutes continuously. When the battery is down to 30-50 percent in capacity, it can be charged continuously as often as 30 times, thus permitting it to accumulate up to 20,000 minutes in discharge time. This new product also finds wide applications in audio and video magnetic tapes, [transistorized] electronic computers, range finders, black lights, signal lights and other instruments and meters. The Wu-chou and Hang-chou Storage Battery Plants are also producing this type of batteries.

Source: Hong Kong CHUNG-KUO HSIN-WEN 8 Jun 78 p 6

Item: Ch'ang-cheng Pharmaceuticals Plant
[7022 1767 0455 5522 0617]

Location: On the foot of O-mei Mountains in Szechwan, PRC

Data: China's largest modernized antibiotics plant, this recently built plant was designed, equipped and constructed by Chinese engineers, technicians and workers. Its main plant buildings and housing area cover 90,000 square meters of floor space. In addition to producing several kinds of important antibiotics, this plant, operating 10 workshops, assumes the task of manufacturing pharmaceutical and chemical equipment for Southwest China. Its production processes are completely mechanized and electrified, and most of the equipment is automatically controlled. In coordination with the Szechwan Antibiotics Research Institute, the plant has successfully trial produced "Li-fu Mei-su" [0500 1788 7199 4790] and "Chuan-chi'u Mei-su" [2208 2575 7199 4790] and has increased the production of these two items.

Source: Hong Kong CHUNG-KUO HSIN-WEN 14 Jun 78 p 6

Item: Mien-hu Chen Chemical Pharmaceuticals Plant
[2758 3275 6966 0553 1331 0455 5673 0617]

Location: Mien-hu Chen, Chieh-yang County, Kwangtung, PRC

Data: This plant has successfully extracted chlorophyll, a raw material for making Vitamin E and has built a complete set of equipment for making chlorophyll. Since the beginning of 1977, it has turned out 27 metric tons of chlorophyll.

Source: Hong Kong CHUNG-KUO HSIN-WEN 14 Jun 78 pp 8-9

Item: Kuang-hsi Vinylon Plant
[1684 6007 4850 1441 4858 0617]

Location: T-shan County, Kwangsi, PRC

Data: This plant was originally designed to employ 2,700 staff members and workers and to accommodate 4,110 people in its housing area that covers 46,729 square meters of floor space (housing accounts for 39,117 square meters and community building, 7,612 square meters). Investment in the construction of the housing area totaled 3.249 million yuan, averaging 69.5 yuan per square meter (including outdoor projects). [No production figures given]

Source: Peking CHIEN-CHU HSUEH-PAO [Architectural Journal] No 2 Jun 78 p 40

Item: Yun-nan "Pai-yao" Plant
[7189 0589 4101 5673 0617]

Location: K'un-ming, Yunnan, PRC

Data: By the end of May, this plant fulfilled the annual "pai'yao" [potassium chloride for medicinal use] output plan by 52 percent, showing an increase of 34.2 percent over that of the same 1977 period.

Source: Hong Kong CHUNG-KUO HSIN-WEN 16 Jun 78 p 6

Item: Kuei-yang Grinding Wheel Plant
[6311 7122 4263 6544 0617]

Location: Kweiyang, Kweichow, PRC

Data: A research group at this plant is now turning out cubic boron nitride, an abrasive of great hardness, which is now widely used in China. Nearly as hard as synthetic diamonds, the new abrasive is easier to process and can stand higher temperature. Research began 4 years ago under the guidance of a young technician named Huang Yuan-ta. Huang Yuan-ta's research group is one of a dozen such groups at this plant, which was the first to produce synthetic diamonds in China. The plant went into operation in 1970. Cited as a Ta-ch'ing-type enterprise in Kweiyang Province, the plant now produces super-hard, monocrystal and polycrystal diamonds and other items for the metallurgical, geological, petroleum, machine-building, defense and scientific research departments. Total output last year was more than six times that in 1970. The plant had completed 126 major innovations and research projects up to 1977. Production of synthetic diamonds is now mechanized or semi-mechanized.

Source: Peking NCNA in English 0736 GMT 12 Jun 78 OW

Item: Pei-ching Rare Metals Refining Plant
[0554 0079 4449 2589 6855 1466 4737 3550 0617]

Location: Peking, PRC

Data: This small plant recovers about 6 metric tons of silver and 150 kilograms of gold every year from waste products from a film studio and a number of factories. It has a staff of more than 100 and is run by a Peking scrap material company. Waste materials include all kinds of metals, rubber, plastics, bottles, paper, rag, bone, fruit peel and hair. The Peking Scrap Material Company has more than 400 purchasing centers scattered throughout the city. The purchasing centers buy at state purchasing prices. The reusable waste materials recovered in Peking in the past two decades are valued at 4 billion yuan. Sixty percent of Peking's paper-making materials come from waste books, magazines, jute, cotton and rags. One of Peking's bone-glue plants supplies industry, agriculture, science and national defense departments with bone glue, bone oil and bone powder made from waste bones purchased from restaurants, hotels and Peking residents.

Source: Peking NCNA in English 0719 GMT 13 Jun 78 OW

Item: Miao-ling Cement Plant
[(1680 1545) 3055 3136 0617]

Location: Wang-ch'ing County, Kirin Province, PRC

Data: This plant successfully completed the first rotary kiln in the Yen-pien Prefecture through 2 1/2 years effort. The designed capacity of the kiln is 70,000 metric tons of cement a year. This fills a gap in high-quality cement production in the Yen-pien Prefecture.

Source: Changchun Kirin Provincial Service in Mandarin 0420 GMT 20 Jun 78 SK

CSO: 4006

END